5.7 SAS INSIGHT

Introduction

The SAS INSIGHT option in StEPS provides access to a SAS product called "SAS/INSIGHT". SAS/INSIGHT is a software product developed and maintained by the SAS Institute. It is a menu-driven system that allows you to perform graphical data analysis using interactive graphs and analyses tools. Some of the capabilities provided in SAS/INSIGHT allow you to:

➤ Analyze univariate distributions

➤ Investigate multivariate distributions

➤ Fit explanatory models using analysis of variance, regression, and the generalized linear model

➤ Create overlaid line plots

➤ Compute descriptive statistics

➤ Create residual and leverage plots

➤ Manipulate histograms to explore the distribution of data

➤ Animate graphs

➤ Rotate data in 3-dimensional plots

Accessing the Screen

! Click on the TOOLS button from the StEPS Main Menu.

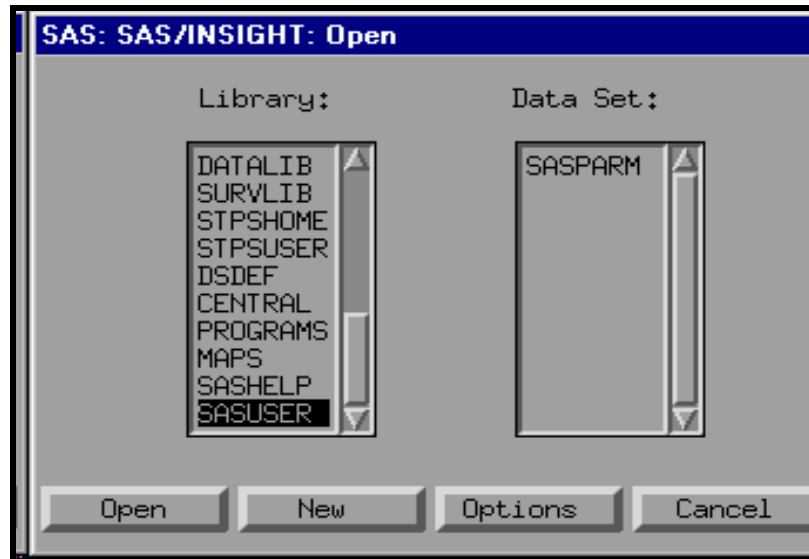! Select the SAS INSIGHT button from the TOOLS menu to display the following:

Figure 5.7a   Selecting a Data Set Screen

Screen Features

When you first enter SAS/INSIGHT, you will be prompted to select a data set to process. You may open an existing data set or create a new one. To open an existing data set:

! Select a library from the "Library" box. A list of data sets contained in that library will display in the box to the right called "Data set".

! Click on the data set you wish to process.

! Click on the "Open" button at the bottom of the screen.

To create a new data set, click on the "New" button at the bottom of the screen. An empty table will display. Enter data directly into the table and save to create a new data set.

Click on the "Options" button to specify standard SAS data set options (e.g., WHERE, DROP, KEEP, RENAME) for the data set being processed:
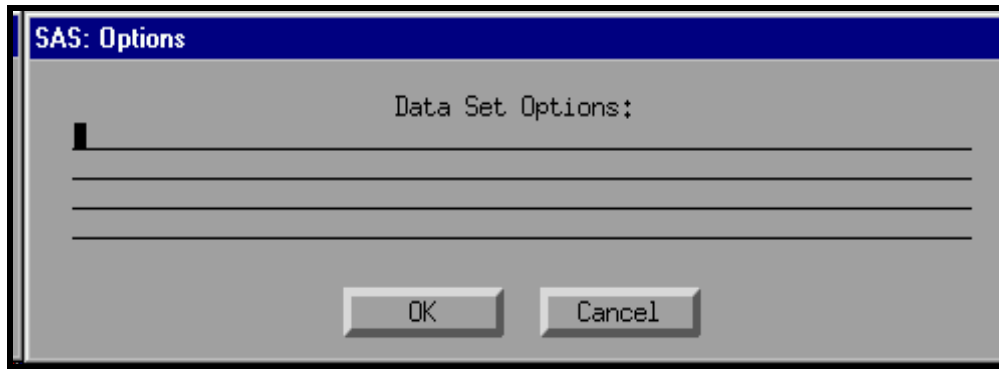
Figure 5.7b   Data Set Options

How to use SAS/INSIGHT will not be discussed in the StEPS User Manual. The Bureau offers a class on using SAS/INSIGHT and we encourage you to take it. Contact your supervisor for more information on SAS classes offered at the Census Bureau.

In addition, SAS/INSIGHT contains HELP screens, which provide extensive information on using the different options available. Click on the HELP p-menu to access information on a particular topic.